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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/763,398

DATE: 08/03/2004

TIME: 14:31:53

Input Set : D:\443c1.app.txt
 Output Set: N:\CRF4\08032004\J763398.raw

4 <110> APPLICANT: Anderson, Christen M.
 5 Carroll, Amy Karen
 8 <120> TITLE OF INVENTION: PRODUCTION OF ADENINE NUCLEOTIDE
 9 TRANSLOCATOR (ANT), NOVEL ANT LIGANDS
 10 AND SCREENING ASSAYS THEREFOR
 12 <130> FILE REFERENCE: 660088.443C1
 14 <140> CURRENT APPLICATION NUMBER: US 10/763,398
 15 <141> CURRENT FILING DATE: 2004-01-23
 17 <150> PRIOR APPLICATION NUMBER: 09/569,327
 18 <151> PRIOR FILING DATE: 2000-05-11
 20 <150> PRIOR APPLICATION NUMBER: PCT/US99/25883
 21 <151> PRIOR FILING DATE: 1999-11-03
 23 <150> PRIOR APPLICATION NUMBER: 09/393,441
 24 <151> PRIOR FILING DATE: 1999-09-08
 26 <150> PRIOR APPLICATION NUMBER: 09/185,904
 27 <151> PRIOR FILING DATE: 1998-11-03
 29 <160> NUMBER OF SEQ ID NOS: 20
 31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 33 <210> SEQ ID NO: 1
 34 <211> LENGTH: 894
 35 <212> TYPE: DNA
 36 <213> ORGANISM: Homo sapiens
 38 <400> SEQUENCE: 1
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 40 gtctccaaga ccgcggtcgc cccatcgag agggtaaac tgctgtgc ggtccagcat 120
 41 ggcagcaaac agatcagtgc tgagaagcag tacaaaggga tcattgattg tgggtgaga 180
 42 atccctaagg agcagggttt ccttccttc tggagggta acctggccaa cgtatccgt 240
 43 tacttccccca cccaaatctt caacttcgccc ttcaaggaca agtacaagca gctttctta 300
 44 ggggggtgtgg atcggcataa gcagttctgg cgctactttg ctggtaacct ggcgtccgg 360
 45 gggcccgctg gggccacctc ctttgcgtt gtctacccgc tggactttgc taggaccagg 420
 46 ttggctgtcg atgtggcag gcgcggccag cgtgatgtcc atggcttggg cgactgtatc 480
 47 atcaagatct tcaagtctga tggcctgagg gggcttacc agggttcaa cgtctctgtc 540
 48 caaggcatca ttatctatag agctgcctac ttggaggatc atgatactgc caagggatg 600
 49 ctgcctgacc ccaagaacgt gcacatttt gtgagctgga tgattgccca gagtgtgacg 660
 50 gcagtgcag ggctgtgtc ctaccccttt gacactgttc gtcgtagaat gatgatgcag 720
 51 tccggccgga aaggggccga tattatgtac acggggacag ttgactgctg gaggaagatt 780
 52 gcaaaagacg aaggagccaa ggccttctt aaaggtgcct ggtccaatgt gctgagaggc 840
 53 atgggcggtg ctttgtatt ggtgttgtat gatgagatca aaaaatatgt ctaa 894
 55 <210> SEQ ID NO: 2
 56 <211> LENGTH: 897
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Homo sapiens
 60 <400> SEQUENCE: 2



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61 atgacagatg ccgctgtgtc cttcgccaaag gacttcctgg caggtggagt ggcgcagcc 60
 62 atctccaaga cggcggtagc gccccatcgag cgggtcaagc tgctgctgca ggtgcagcat 120
 63 gccagcaagc agatcactgc agataagcaa tacaaggca ttatagactg cgtggccgt 180
 64 attcccaagg agcaggaagt tctgtccttc tggcgccgtt acctggccaa tgtcatcaga 240
 65 tacttccccca cccaggctct taacttcgccc ttcaaagata aatacaagca gatcttcctg 300
 66 ggtgggtgtgg acaagagaac ccagtttgg ctctactttg cagggaatct ggcacatcggt 360
 67 ggtgcgcag gggccacatc cctgtgtttt gtgtaccctc ttgattttgc cctgaccgt 420
 68 cttagcagctg atgtggtaa agctggagct gaaaggaaat tccgaggcct cggtaactgc 480
 69 ctgggttaaga tctacaaatc tgatggatt aaggccctgt accaaggctt taacgtgtct 540
 70 gtgcagggtt ttatcatcta ccgagccgccc tacattcggtt tctatgacac tgcaaaaggga 600
 71 atgcttcggg atcccaagaa cactcacatc gtcacatcgct ggatgatcgc acagactgtc 660
 72 actgctgttg cccgggttgc ttccatccatca tttgacactg ttccgcgcgc catgatgatg 720
 73 cagtcaggcc gcaaaggaaac tgacatcatg tacacaggca cgcttgactg ctggcgaaag 780
 74 attgctcggt atgaaggagg caaagctttt ttcaagggtt catggtccaa tggtttcaga 840
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 78 <211> LENGTH: 897
 79 <212> TYPE: DNA
 80 <213> ORGANISM: Homo sapiens
 82 <400> SEQUENCE: 3
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 84 atctccaaga cggccgtggc tccgatcgag cgggtcaagc tgctgctgca ggtccagcac 120
 85 gccagcaagc agatcgcgc cggacaaagcag tacaaggca tcgtggactg cattgtccgc 180
 86 atcccccaagg agcagggcgt gctgtccttc tggagggggca accttgcctt cgtcatcgc 240
 87 tacttccccca ctcaagccctt caacttcgccc ttcaaggata agtacaaagca gatcttcctg 300
 88 gggggcgtgg acaagcacac gcaagttctgg aggtactttt cgggcacactt ggctccggc 360
 89 ggtgcggccg ggcgcacatc cctctgtttt gtgtaccctc ttgattttgc cagaacccgc 420
 90 ctggcagcgg acgtggaaa gtcaggcaca gagcgcgagt tccgaggcctt gggagactgc 480
 91 ctggtaaga tcaccaagtc cgacggcatc cgggcctgtt accaggcattt cagtgctcc 540
 92 gtgcagggtt tcacatcatcta ccggccggcc tacattcggtt tgcgtatcgc ggccaaggc 600
 93 atgctccccg accccaaagaa cacgcacatc gtggtagactt ggatgatcgc gcagaccgt 660
 94 acggccgtgg ccggcggtt gtcctacccc ttgcacacgg tgcggccggc catgatgatg 720
 95 cagtccggcc gcaaaggagc tgacatcatg tacacggca ccgtcgactg ttggaggaag 780
 96 atcttcagag atgagggggg caaggcccttc ttcaagggtt cgtggtccaa cgtcctgcgg 840
 97 ggcatggggg ggccttcgtt gtcgtttttt tacgacgagc tcaagaaggtt gatctaa 897
 99 <210> SEQ ID NO: 4
 100 <211> LENGTH: 297
 101 <212> TYPE: PRT
 102 <213> ORGANISM: Homo sapiens
 104 <400> SEQUENCE: 4
 105 Met Gly Asp His Ala Trp Ser Phe Leu Lys Asp Phe Leu Ala Gly Ala
 106 1 5 10 15
 107 Val Ala Ala Ala Val Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
 108 20 25 30
 109 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ser Ala Glu
 110 35 40 45
 111 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 112 50 55 60
 113 Gln Gly Phe Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg

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114 65 70 75 80
115 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
116 85 90 95
117 Gln Leu Phe Leu Gly Gly Val Asp Arg His Lys Gln Phe Trp Arg Tyr
118 100 105 110
119 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
120 115 120 125
121 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
122 130 135 140
123 Val Gly Arg Arg Ala Gln Arg Glu Phe His Gly Leu Gly Asp Cys Ile
124 145 150 155 160
125 Ile Lys Ile Phe Lys Ser Asp Gly Leu Arg Gly Leu Tyr Gln Gly Phe
126 165 170 175
127 Asn Val Ser Val Gln Gly Ile Ile Tyr Arg Ala Ala Tyr Phe Gly
128 180 185 190
129 Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Val His
130 195 200 205
131 Ile Phe Val Ser Trp Met Ile Ala Gln Ser Val Thr Ala Val Ala Gly
132 210 215 220
133 Leu Leu Ser Tyr Pro Phe Asp Thr Val Arg Arg Met Met Met Gln
134 225 230 235 240
135 Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp Cys
136 245 250 255
137 Trp Arg Lys Ile Ala Lys Asp Glu Gly Ala Lys Ala Phe Phe Lys Gly
138 260 265 270
139 Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu Val
140 275 280 285
141 Leu Tyr Asp Glu Ile Lys Lys Tyr Val
142 290 295
145 <210> SEQ ID NO: 5
146 <211> LENGTH: 298
147 <212> TYPE: PRT
148 <213> ORGANISM: Homo sapiens
150 <400> SEQUENCE: 5
151 Met Thr Asp Ala Ala Val Ser Phe Ala Lys Asp Phe Leu Ala Gly Gly
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153 Val Ala Ala Ala Ile Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
154 20 25 30
155 Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Thr Ala Asp
156 35 40 45
157 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
158 50 55 60
159 Gln Glu Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
160 65 70 75 80
161 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
162 85 90 95
163 Gln Ile Phe Leu Gly Gly Val Asp Lys Arg Thr Gln Phe Trp Leu Tyr
164 100 105 110
165 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu

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166 115 120 125
 167 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Leu Ala Ala Asp
 168 130 135 140
 169 Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 170 145 150 155 160
 171 Leu Val Lys Ile Tyr Lys Ser Asp Gly Ile Lys Gly Leu Tyr Gln Gly
 172 165 170 175
 173 Phe Asn Val Ser Val Gln Gly Ile Ile Tyr Arg Ala Ala Tyr Phe
 174 180 185 190
 175 Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 176 195 200 205
 177 His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 178 210 215 220
 179 Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 180 225 230 235 240
 181 Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp
 182 245 250 255
 183 Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
 184 260 265 270
 185 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
 186 275 280 285
 187 Val Leu Tyr Asp Glu Ile Lys Lys Tyr Thr
 188 290 295
 191 <210> SEQ ID NO: 6
 192 <211> LENGTH: 298
 193 <212> TYPE: PRT
 194 <213> ORGANISM: Homo sapiens
 195 <400> SEQUENCE: 6
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 197 1 5 10 15
 198 Ile Ala Ala Ala Ile Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
 199 20 25 30
 200 Lys Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ala Ala Asp
 201 35 40 45
 202 45 55 60
 203 Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu
 204 50 55 60
 205 Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 206 65 70 75 80
 207 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 208 85 90 95
 209 Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr
 210 100 105 110
 211 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 212 115 120 125
 213 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 214 130 135 140
 215 Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 216 145 150 155 160
 217 Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly

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218 165 170 175
 219 Phe Ser Val Ser Val Gln Gly Ile Ile Tyr Arg Ala Ala Tyr Phe
 220 180 185 190
 221 Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 222 195 200 205
 223 His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 224 210 215 220
 225 Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 226 225 230 235 240
 227 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp
 228 245 250 255
 229 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
 230 260 265 270
 231 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu
 232 275 280 285
 233 Val Leu Tyr Asp Glu Leu Lys Lys Val Ile
 234 290 295
 237 <210> SEQ ID NO: 7
 238 <211> LENGTH: 43
 239 <212> TYPE: DNA
 240 <213> ORGANISM: Artificial Sequence
 242 <220> FEATURE:
 243 <223> OTHER INFORMATION: primer used for human ANT1 amplification
 245 <400> SEQUENCE: 7
 246 ttatatctcg agtatgggtg atcacgcttg gagcttccta aag 43
 248 <210> SEQ ID NO: 8
 249 <211> LENGTH: 43
 250 <212> TYPE: DNA
 251 <213> ORGANISM: Artificial Sequence
 253 <220> FEATURE:
 254 <223> OTHER INFORMATION: Primer used for human ANT1 amplification
 256 <400> SEQUENCE: 8
 257 tatataggta ccttagacat atttttgat ctcatcatac aac 43
 259 <210> SEQ ID NO: 9
 260 <211> LENGTH: 43
 261 <212> TYPE: DNA
 262 <213> ORGANISM: Artificial Sequence
 264 <220> FEATURE:
 265 <223> OTHER INFORMATION: Primer used for human ANT2 amplification
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 271 <211> LENGTH: 43
 272 <212> TYPE: DNA
 273 <213> ORGANISM: Artificial Sequence
 275 <220> FEATURE:
 276 <223> OTHER INFORMATION: Primer used for human ANT2 amplification
 278 <400> SEQUENCE: 10
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VERIFICATION SUMMARY

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